

ABSTRACT OF THE DISCLOSURE

An improved ion-selective electrode with enhanced sensitivity and reliability. The electrode is readily formed from an electrode assembly sealingly joined to the upper end of an electrode chamber whose lower end opens into in a tube bore of substantial path length that provides a conductive path between the electrode assembly and a sensing tip of the electrode. The electrode assembly itself takes the form of a generally helical coil formed on a post extending from the upper end of the assembly and positioning a substantial length of conductive lead remote from the sensing tip of the electrode. The electrode chamber is thermally insulated from the main body of the electrode, and adverse temperature effects are thus greatly minimized. A self-cleaning junction has also been developed. Increased reliability for a given sensitivity have been found to result from the construction.

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